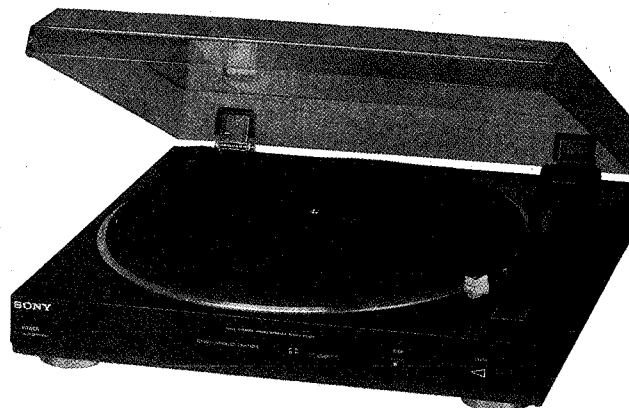


# PS-V701/V701P

## SERVICE MANUAL

*AEP Model*  
PS-V701

*UK Model*  
PS-V701P



PS-V701P is the STEREO  
TURNTABLE SYSTEM  
in LBT-V701CD/V701CDG

This photo is PS-V701.

### SPECIFICATIONS

#### Turntable

Platter	30 cm (12 in.)
Motor	DC servo motor
Drive system	Belt drive
Speed	33 $\frac{1}{3}$ rpm/45 rpm switchable
Wow and flutter	0.15% (WRMS)
Signal-to-noise ratio	65 dB (DIN-B)
Automatic system	Return, reject, lead in.

#### Tonearm

Type	Dynamically balanced
Pivot-to stylus length	206 mm (7 $\frac{7}{8}$ in.)
Overall arm length	235 mm (9 $\frac{3}{8}$ in.)

#### Cartridge

Type	Moving magnet type
Frequency response	20 Hz - 20kHz
Stylus	ND-155G

#### General

Dimensions	355 × 100 × 340 mm (w/h/d) (14 × 4 × 13 $\frac{1}{2}$ inches)
Weight	Approx. 2.6 kg (4 lb 14 oz)
Power requirements	220 V AC, 50/60 Hz
Power consumption	2 W
Accessory supplied	45-rpm adaptor (1)
Optional accessory	Replacement stylus ND-155G

Design and specifications subject to change without notice.

#### Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

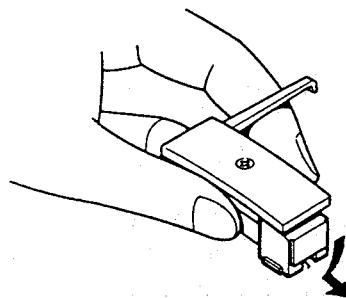
#### Note for Cartridge

Be careful not to use any cartridge except for specified one (Part No.: 1-549-135-11) as balance weight of pick up arm assembly is fixed.

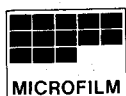
### REPLACING THE STYLUS

Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An ND-155G replacement stylus is available at your Sony dealer. Be sure to turn the amplifier off before proceeding with replacement.

- 1 While holding the cartridge, detach the stylus assembly as illustrated.
- 2 Insert the new stylus into the cartridge.



STEREO TURNTABLE SYSTEM  
**SONY**®



## SECTION 1 GENERAL

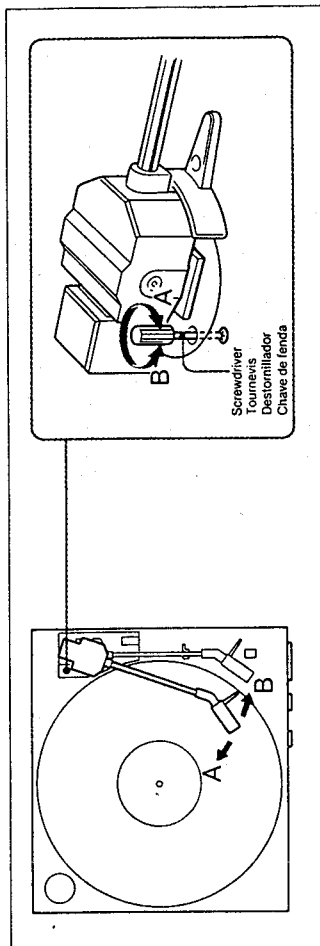
### 1-2. TONEARM DROP-POINT ADJUSTMENT

The tonearm drop-point during auto play has been factory-adjusted. If necessary, readjust it as follows.

**To move the drop-point toward A,** turn the adjustment screw clockwise with a screwdriver.

**To move the drop-point toward B,** turn the adjustment screw counterclockwise with a screwdriver.

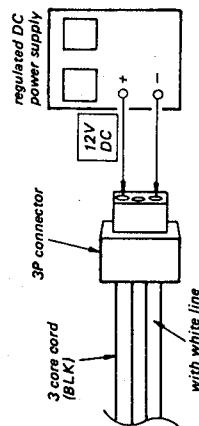
**If the tonearm does not return to the arm rest automatically after play**  
Turn the adjustment screw counterclockwise.



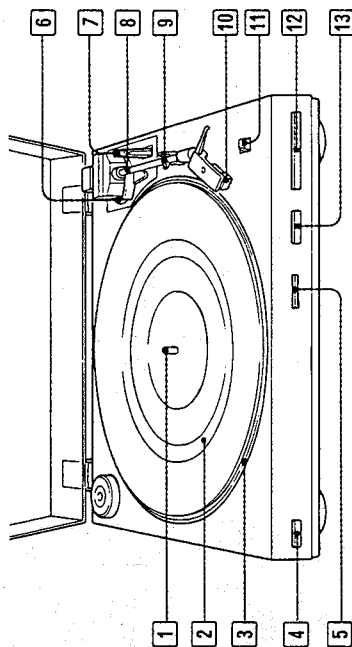
#### REPAIRING PRECAUTION (PS-V701 only)

[To supply B+ voltage]

The power of this unit is fed from TA-V701. Because of this, connect the regulated DC power supply as illustrated right when this unit alone operates.



### 1-1. LOCATION AND FUNCTION OF CONTROLS



1 Center spindle

2 Rubber mat

3 Turntable platter

4 POWER switch

5 SPEED select button

Allows selection of 45 rpm or 33 rpm turntable speed.

6 Drop point adjustment hole

7 Cueing lever (▼/▼)

8 Tonearm

9 Arm rest

10 Cartridge

11 SIZE SELECTOR

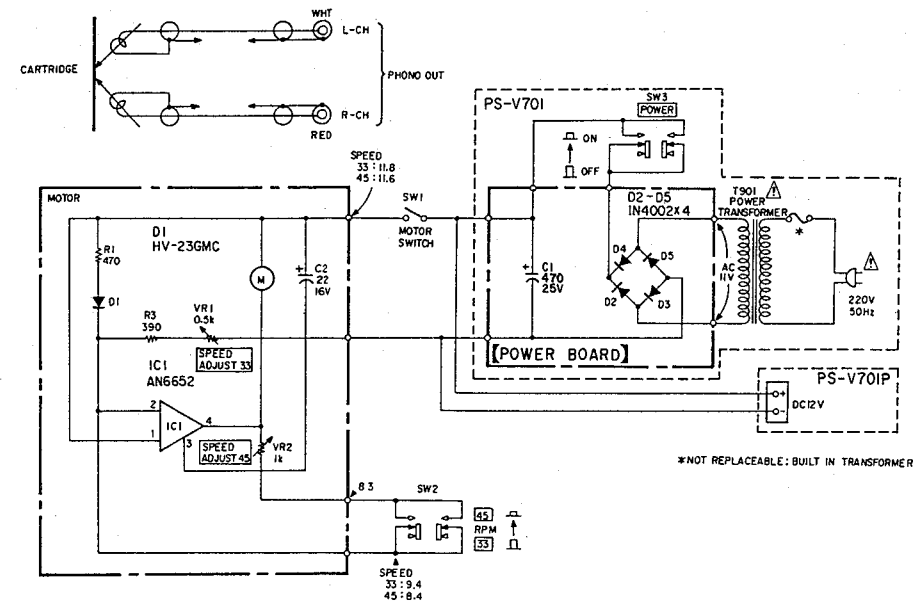
Allows selection of 17 cm (7 inch) or 30 cm (12 inch) records.

12 ◀(start) button

13 ■ (stop) button

## SECTION 2 DIAGRAMS

### 2-1. SCHEMATIC DIAGRAM



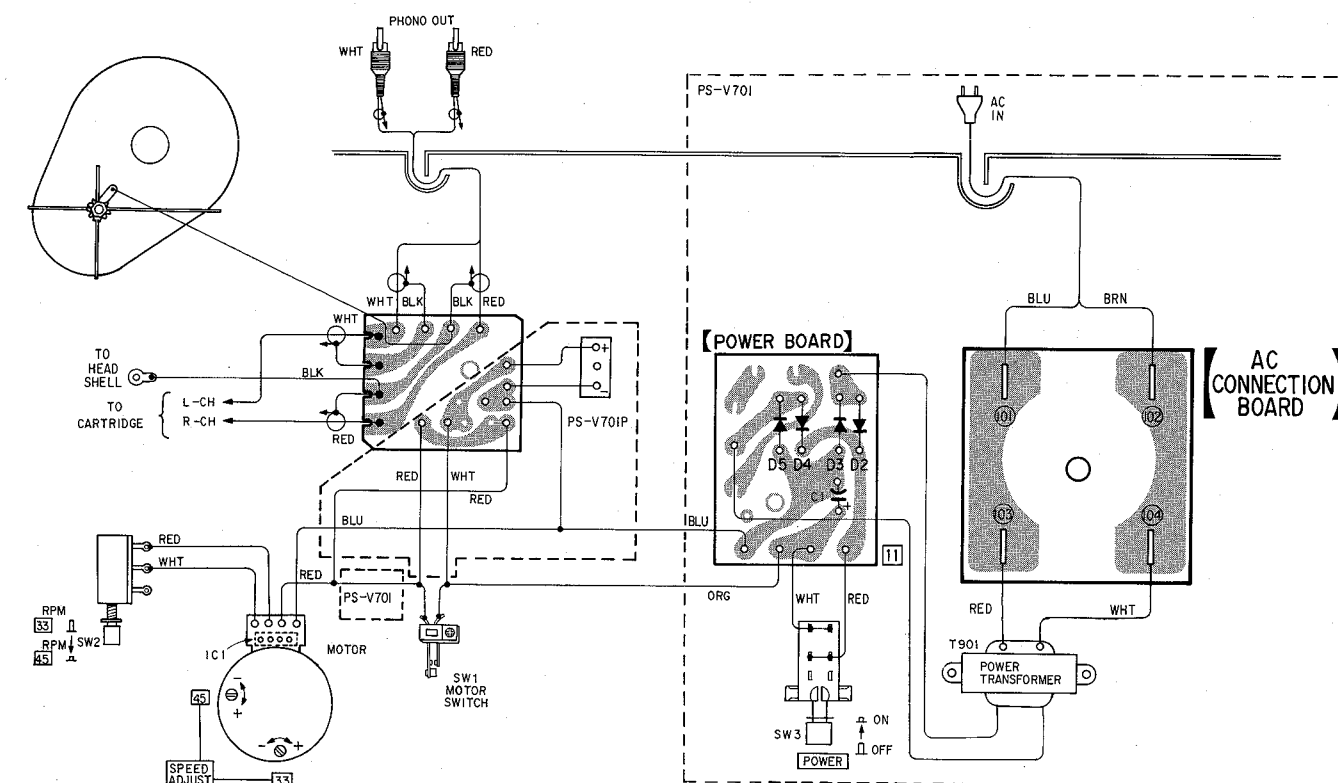
Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- Switches:

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF
SW4	VOLTAGE SELECTOR	120V

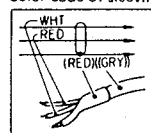
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

### 2-2. WIRING DIAGRAM



Note:

- Color code of sleeving over the end of the jacket.



○ — : parts extracted from the component side.

## SECTION 3 EXPLODED VIEWS

### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

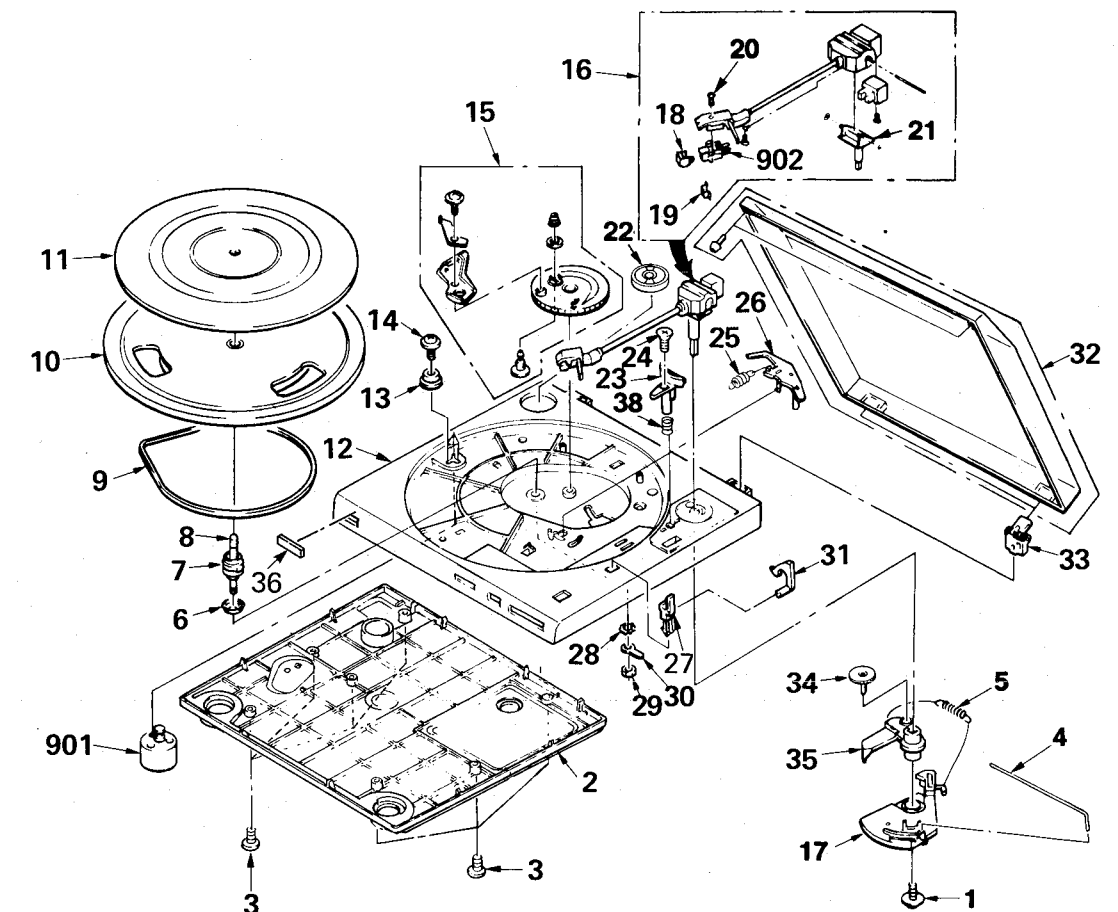
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE)

↑  
Cabinet's Color

↑  
Parts Color

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

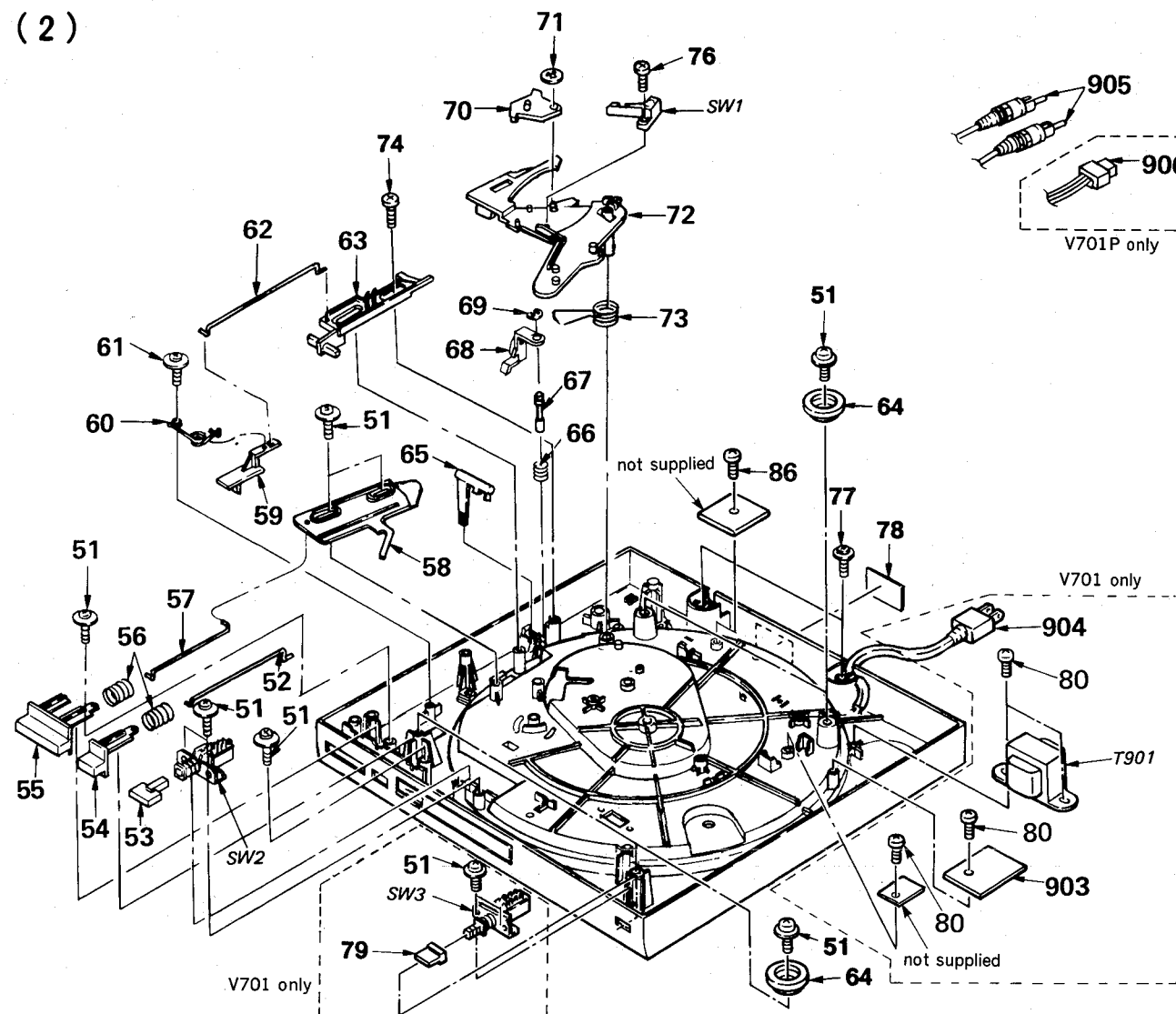
(1)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-896-509-01	SCREW (7-BID 3012 ZN3A 12D)		21	4-895-464-01	P.U. HINGE BRACKET	
2	*4-896-217-01	BOARD, BOTTOM		22	3-701-806-00	ADAPTOR, 45	
3	7-685-647-79	SCREW		23	4-896-258-01	PLATFORM, LIFT	
4	*4-896-264-01	ROD, TRIP		24	7-621-561-49	SCREW	
5	4-895-460-01	ADJUST SPRING		25	4-896-262-01	SPRING	
6	4-896-210-01	WASHER		26	4-896-505-01	LEVER, REJECT	
7	4-896-233-01	GEAR, T/T		27	4-895-417-01	P.U. REST	
8	4-896-232-01	SPINDLE		28	7-623-424-07	W GEAR 0003 ZN3A	
9	4-880-655-01	BELT		29	7-684-024-04	NUT 50 ZN3A	
10	4-909-060-01	TURNTABLE		30	4-896-508-01	TERMINAL, GROUND	
11	4-895-478-01	INNER PLATE		31	4-895-418-01	P.U. TUBE HOOK	
12	4-896-506-01	(V701)...CABINET		32	4-895-480-01	DUST COVER ASSY	
	4-896-511-01	(V701P)...CABINET		33	4-895-410-01	HINGE ASSY	
13	4-896-507-01	GROMMET (A)		34	4-895-458-01	ADJUST CAM	
14	7-685-646-79	SCREW		35	4-896-223-01	LINK (A), RETURN	
15	X-4895-409-1	GEAR ASSY, CAM		36	4-925-161-21	EMBLEM (4-A), SONY	
16	X-4895-410-1	ARM ASSY		38	4-896-267-01	SPRING (A)	
17	4-896-224-01	LINK (B), RETURN		901	1-541-568-11	MOTOR	
18	1-549-132-11	BEAM		902	1-549-135-11	CARTRIDGE (ND-155G)	
19	4-895-474-01	COVER, BEAM					
20	7-627-553-98	SCREW					

# SECTION 4 ELECTRICAL PARTS LIST

(2)



Note: The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-685-646-79	SCREW		71	4-303-605-00	PUSH NUT DIA.3	
52	4-896-261-01	WIRE, REJECT		72	4-896-218-01	ARM, CONTROL	
53	4-896-241-01	BUTTON, SPEED		73	4-896-247-01	SPRING	
54	4-896-240-01	BUTTON, STOP		74	4-896-510-01	SCREW (7-BID 304 ZN3A)	
55	4-896-242-01	BUTTON, START		76	7-685-104-19	SCREW	
56	4-896-255-01	SPRING		77	4-896-256-01	SCREW ASSY	
57	4-896-216-01	WIRE, CONTROL ARM		78	*4-928-260-01	(V701P)...LABEL, MODEL NUMBER	
58	4-896-215-01	LEVER, CONTROL			*4-928-259-01	(V701:AE1)...LABEL, MODEL NUMBER (AE)	
59	4-896-243-01	KNOB, SPEED			*4-928-259-11	(V701:AE2)...LABEL, MODEL NUMBER (AE)	
60	4-896-244-01	SPRING		79	4-895-896-01	(V701)...BUTTON, POWER	
61	4-896-245-01	SCREW		80	7-685-647-79	SCREW	
62	*4-896-213-01	WIRE, SELECTOR		903	1-626-640-11	(V701)...PC BOARD, POWER	
63	4-896-214-01	SELECTOR, SIZE		904	▲1-555-750-00	(V701)...CORD, POWER, EULO PLUG	
64	4-895-435-01	FOOT		905	▲1-555-116-11	CORD, CONNECTION	
65	4-896-212-01	LEVER, CUE		906	1-557-109-21	(V701P)...CORD, CONNECTION (3 CORE)	
66	4-896-251-01	SPRING (B)		SW1	1-570-666-11	SWITCH, LEAF	
67	4-896-252-01	SHAFT, ARM LIFT		SW2	1-571-560-11	SWITCH, PUSH (1 KEY)	
68	4-896-253-01	FORK, LIFT		SW3	1-571-560-11	(V701)...SWITCH, PUSH (1 KEY)	
69	4-896-254-01	RING (DIA.3), E		T901	▲1-449-291-11	(V701)...TRANSFORMER, POWER	
70	4-896-248-01	CAM					

## NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

## CAPACITORS:

MF:  $\mu$ F, PF:  $\mu$ F.

## RESISTORS

- All resistors are in ohms.
- F: nonflammable

## COILS

- MMH: mH, UH:  $\mu$ H

## SEMICONDUCTORS

In each case, U:  $\mu$ , for example:  
 UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
 UPC...:  $\mu$ PC, UPD...:  $\mu$ PD...

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
901	1-541-568-11	MOTOR
902	1-549-135-11	CARTRIDGE (MD-155G)
903	1-626-640-11	(V701)...PC BOARD, POWER
904	▲1-555-750-00	(V701)...CORD, POWER, EULO PLUG
905	1-555-116-11	CORD, CONNECTION
906	1-557-109-21	(V701P)...CORD, CONNECTION (3 CORE)
C1	1-123-336-00	(V701)...ELECT 470 20% 25V
D2	8-719-200-02	(V701)...DIODE 10E2
D3	8-719-200-02	(V701)...DIODE 10E2
D4	8-719-200-02	(V701)...DIODE 10E2
D5	8-719-200-02	(V701)...DIODE 10E2
SW1	1-570-666-11	SWITCH, LEAF
SW2	1-571-560-11	SWITCH, PUSH (1 KEY)
SW3	1-571-560-11	(V701)...SWITCH, PUSH (1 KEY)
T901	▲1-449-291-11	(V701)...TRANSFORMER, POWER

## ACCESSORY &amp; PACKING MATERIAL

3-750-347-11	(V701)...MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
3-750-347-41	(V701)...MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN)
3-701-806-00	ADAPTOR, 45
4-895-478-01	INNER PLATE
*4-896-515-01	(V701)...INDIVIDUAL CARTON